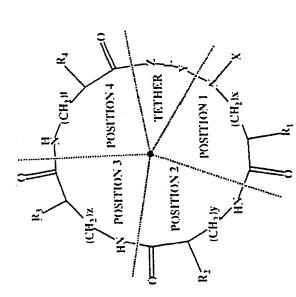
## osersa. Tookoo



FAMILY 1; see table

FAMILY 2: like family I with position 4 empty

FAMILY 3: like family 1 with positions 3 and 4 empty

FAMILY 4: like family I with positions 2, 3 and 4 empty

					a a a a
×	>	2	T	x y z t (a)	KI KY ZW IN DN
SO. Ar	CH.	HN-	-(CH <sub>2</sub> ) <sub>1</sub> - i=1 to 9	с	
**************************************	-02	φ	-(CH <sub>2</sub> ) <sub>m</sub> -Ar-(CH <sub>2</sub> ) <sub>n</sub> - -(CH <sub>2</sub> ) <sub>m</sub> -O-Ar-(CH <sub>2</sub> ) <sub>n</sub> -(CH <sub>2</sub> ) <sub>m</sub> -Ar-O-(CH <sub>2</sub> ) <sub>n</sub> -	- 6	NIIII N NIKIN
£			Ar outho, meta, para		OKAIO NONIACIN' NONIACIN
CO-NHR CO-NHA	·	-(CH <sub>2</sub> ) <sub>m</sub> -CH= Alkene E.Z -(CH <sub>2</sub> ) <sub>m</sub> -C=C	-(CH <sub>2</sub> ) <sub>m</sub> -CH=CH-(CH <sub>2</sub> ) <sub>n</sub> - Alkene E,Z -(CH <sub>2</sub> ) <sub>r</sub> -Ar-CH=CH-(CH <sub>2</sub> ) <sub>s</sub> - -(CH <sub>2</sub> ) <sub>m</sub> -CH-CH-Ar-(CH <sub>2</sub> ) <sub>s</sub> - -(CH <sub>2</sub> ) <sub>m</sub> -CH-CH-Ar-(CH <sub>2</sub> ) <sub>s</sub> -	1-(CH <sub>2</sub> ),- r-(CH <sub>2</sub> ),-	OPGO Princial Copgo Princial
09-0-180 -CO-0-8u		—(CH <sub>2</sub> )m—	,	CH-(CH <sub>2</sub> ),- r-O-(CH <sub>2</sub> ),-	Spessi Jensen Je
		epoxie —(CH2)mT H4	epoxide cis.trans	E	Proline and 4 Hydroxypmline can be used at Positions 0,2.3 (also at position 1 when X=CO)
ران آگ—* ا	CID)a-Nillecin	—(CH2)m7 O			PGO= -H, -COH, -CO-CH <sub>1</sub> , -CO-Ar, CO-IBu
		•	m=1 to 6, n=1 to 6		$PG_{RUid} = -OH, -NH_2, -OCH_3, -NHCH_3, -O.1Bu, -O.Bn$
PGN= -HS	102-CH1S	02-CF3-CO	JH, -CO-CH3, -CO-Ar, -CO-NHR, -CC	-NHARCO	PGN=-H, -SO <sub>2</sub> -CH <sub>3</sub> ,-SO <sub>2</sub> -CF <sub>3</sub> ,-COH, -CO-CH <sub>3</sub> , -CO-Ar, -CO-NHR, -CO-0-1Bu, -CO-0-Bn, -CO-O-R PGS=-H, -1Bu, -CO-CH <sub>3</sub> , -CO-Ar, -COH

Ar. alkeness and CH2s in AA (Amino-Acid), PGN, PGO, PGacid and PGS can hear groups amongst: -O-CH3, -CH3, -NH2, -NH-CH3, -N(CH3)2, -CO-OH, -CO-CH3, -CO-NH2, OH, F, CI, Br, I.

FIGURE 1

PG
$$_{1}$$
 PG $_{2}$  PG $_{3}$  PG $_{4}$  P 1) Coupling

1) Coupling

1) Deprotection

1) PG $_{1}$  PG $_{2}$  PG $_{3}$  PG $_{4}$  P 2) PG $_{1}$  PP 10 PG $_{2}$  PG $_{3}$  PG $_{4}$  P 2) PG $_{1}$  PP 10 PG $_{2}$  PG $_{3}$  PG $_{4}$  PP 10 PG $_{4}$  PP 10 PG $_{4}$  PP 11 PP 12 P

 $\underline{A} = Sp$ 

FIGURE 2a

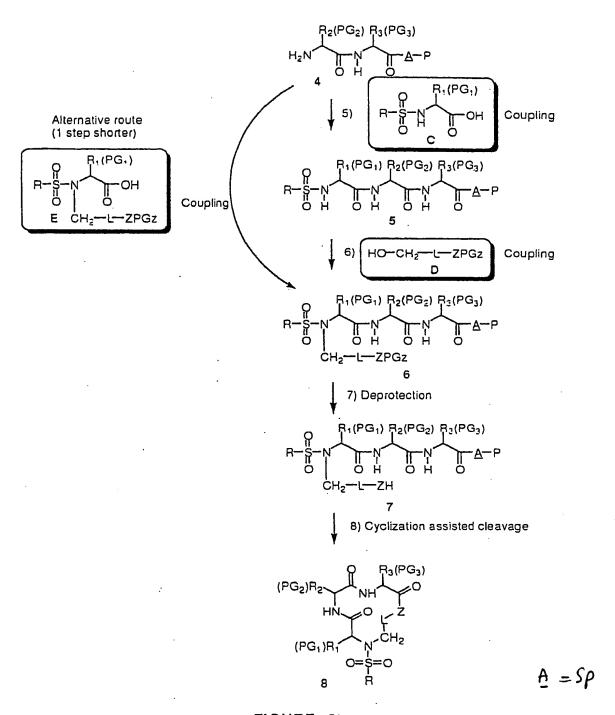


FIGURE 2b

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$0 = S = 0$$

$$8 \qquad (PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{NH} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_2)R_2 \xrightarrow{N} CH_2$$

$$(PG_1)R_1 \xrightarrow{N} CH_2$$

$$(PG_1)R_2 \xrightarrow{N} C$$

FIGURE 3

FIGURE 4a

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$$(PG_2)R_2$$
 $(PG_1)R_1$ 
 $(PG_1)R_1$ 
 $(PG_1)R_1$ 
 $(PG_1)R_1$ 
 $(PG_1)R_1$ 
 $(PG_2)R_2$ 
 $(PG_1)R_1$ 
 $(PG_$ 

FIGURE 4b